Environmental authority EA0001286

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EA0001286

Environmental authority takes effect on 17-07-2020

The anniversary day of this environmental authority remains **28 June**. The payment of the annual fee will be due each year on this day. An annual return will be due each year on **01 March.**

Environmental authority holder

Name	Registered address
EMAAAS PTY. LTD.	441 Miles Platting Rd ROCHEDALE QLD 4123 Australia

Environmentally relevant activity and location details

Environmentally relevant activity	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 379 Plan RP176912
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1 Plan RP192617

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Environmental authority EA0001286

Samuel Smith
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 17 July 2020

Enquiries:
Heritage, Utilities and Government Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.qld.gov.au

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Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

Environmental authority EA0001286

Conditions of environmental authority

Environmentally relevant activity	Locations
ERA 63 - Sewage Treatment 1: Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 1 Plan RP192617 Lot 379 Plan RP176912

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site-specific conditions of the approval.

Agency interest: General	
Condition number	**Condition**
G1	Inflows of sewage to the sewage treatment plant are limited to 70,000L per **day.**
G2	Inflows of sewage to the treatment plant must be determined using a flow meter on a daily basis, and records kept of such determinations.
G3	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**
G4	All waste generated in carrying out the **activity** must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.
G5	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. **Records** must be kept including full details of the breach and any subsequent actions taken.
G6	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities.**
G7	When required by the **administering authority,** monitoring must be undertaken in the manner prescribed by the **administering authority** to investigate a complaint of **environmental nuisance** arising from the **activity.** The monitoring results must be provided within 10 business days to the **administering authority** upon its request.
G8	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities **(NATA)** certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of pH, electrical conductivity, turbidity, and total residual chlorine.

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G9	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G10	The **activity** must be undertaken in accordance with written procedures that: 1) identify potential risks to the environment from the **activity** during routine operations, closure and an emergency; and 2) establish and maintain control **measures** that minimise the potential for environmental harm; and 3) ensure plant, equipment and **measures** are maintained in a proper and effective condition; and 4) ensure plant, equipment and **measures** are operated in a proper and effective manner; and 5) ensure that staff are trained in and aware of their obligations under the *Environmental Protection Act 1994*; and 6) ensure that reviews of environmental performance are undertaken at least annually.
G11	All information and **records** required by the conditions of this environmental authority must be kept for a minimum of five years with the exception of environmental monitoring results which must be kept until surrender of this environmental authority.
G12	All information and **records** required by the conditions of this environmental authority must be provided to the **administering authority** upon request and in the format requested.
G13	**You** must record the following details of all environmental complaints received: 1) date and time the complaint was received 2) name and contact details of the complainant when provided and authorised by the complainant 3) nature of the complaint 4) investigation undertaken 5) conclusions formed 6) actions taken.
Agency interest: Air	
Condition number	**Condition**
A1	Odours or airborne contaminants must not cause **environmental nuisance** at a **sensitive place** or **commercial place.**
Agency interest: Water	

<table>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>WT1</td><td>Contaminants must not be released to any waters.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td colspan="2">Condition</td></tr>
<tr><td>L1</td><td>Treated effluent may be applied to the irrigation area via subsurface irrigation at a maximum rate of 1.6mm per day.</td></tr>
<tr><td>L2</td><td>When treated effluent cannot be irrigated to land, it must be stored in an enclosed 500KL storage tank, or transported by a licenced operator to a place licensed to receive the waste.</td></tr>
<tr><td>L3</td><td>The only contaminant to be released to land is treated effluent within the irrigation area and in accordance with Table 1 – Treated effluent release limits to irrigation area and the associated requirements.
Table 1 - Treated effluent release limits to irrigation area
<table>
<tr><th>Quality Characteristic (Units)</th><th>Minimum</th><th>Median</th><th>95th Percentile</th><th>Maximum</th><th>Minimum monitoring frequency</th></tr>
<tr><td>Turbidity (NTU)</td><td>-</td><td>-</td><td><2</td><td>5</td><td>Continuous</td></tr>
<tr><td>Total Nitrogen (mg/L as N)</td><td>-</td><td>-</td><td>-</td><td>30</td><td>Monthly</td></tr>
<tr><td>Total Phosphorus (mg/L as P)</td><td>-</td><td>-</td><td>-</td><td>10</td><td>Monthly</td></tr>
<tr><td>pH (pH units)</td><td>5</td><td>-</td><td>-</td><td>8.5</td><td>Monthly</td></tr>
<tr><td>E.coli (cfu/100ml)</td><td>-</td><td><10</td><td>-</td><td>15</td><td>Monthly</td></tr>
<tr><td>Electrical Conductivity (µS/cm)</td><td>-</td><td><1600</td><td>-</td><td>2500</td><td>Monthly</td></tr>
<tr><td>Total Residual Chlorine (mg/L)</td><td>-</td><td>-</td><td>-</td><td>2</td><td>Daily</td></tr>
</table>
Associated monitoring requirements
1) Monitoring for all parameters except turbidity must be undertaken at the outlet of the recycled water storage tank.</td></tr>
</table>

	2) Monitoring for turbidity must be undertaken from the treated wastewater stream prior to disinfection. 3) The median is to be determined using 5 samples, sampled every half hour. 4) Monitoring must be in accordance with the latest version of the **administering authority's** *Water Quality Sampling Manual*. 5) Monitoring must be undertaken when treated sewage effluent is being irrigated, unless irrigation has ceased for longer than the relevant parameters specified minimum frequency (e.g. if TSS was only required to be monitored once a week, then a TSS sample would not be required after the first week following cessation of the release). 6) Indicators for TN and TP are recommended to be done as grab samples.
L4	Treated effluent is permitted to be released to land provided that it is done in accordance with a written procedure that ensures: 1) infiltration to groundwater and subsurface flows of contaminants to surface waters are prevented; 2) surface pondage and run-off of effluent is prevented; 3) degradation of soil structure is minimised; 4) soil sodicity and the build-up of nutrients and heavy metals in the soil and subsoil are minimised; 5) spray drift or overspray do not carry beyond effluent disposal areas; 6) effluent disposal areas are maintained with an appropriate crop in a viable state for transpiration and nutrient uptake; and 7) the crop on the disposal area is harvested and removed from the disposal area.
L5	When weather conditions or soil conditions preclude the release of treated sewage effluent to land, effluent must not be irrigated to land.

Definitions

Key terms and/or phrases bolded in this environmental authority are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

95th percentile means measured values are to exceed the stated release limit no more than one (1) for any twenty (20) consecutive samples.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Science or its successors or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using the relevant protocols, standards, methods or literature.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Day means any 24 hour period.

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994.*

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Irrigation area means the Proposed Irrigation Area identified in *Attachment 1 — Waste Water Treatment and Effluent Disposal System Site Plan (Job# TE191028, Revision C, DWG# SL1, prepared by Taylor Environmental, dated 18/03/2020)*.

Land does not include **waters.**

Measures have the broadest interpretation and include plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

Median means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

NATA means National Association of Testing Authorities.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, **groundwater,** or surface waters.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or

4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992,* the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2019*.

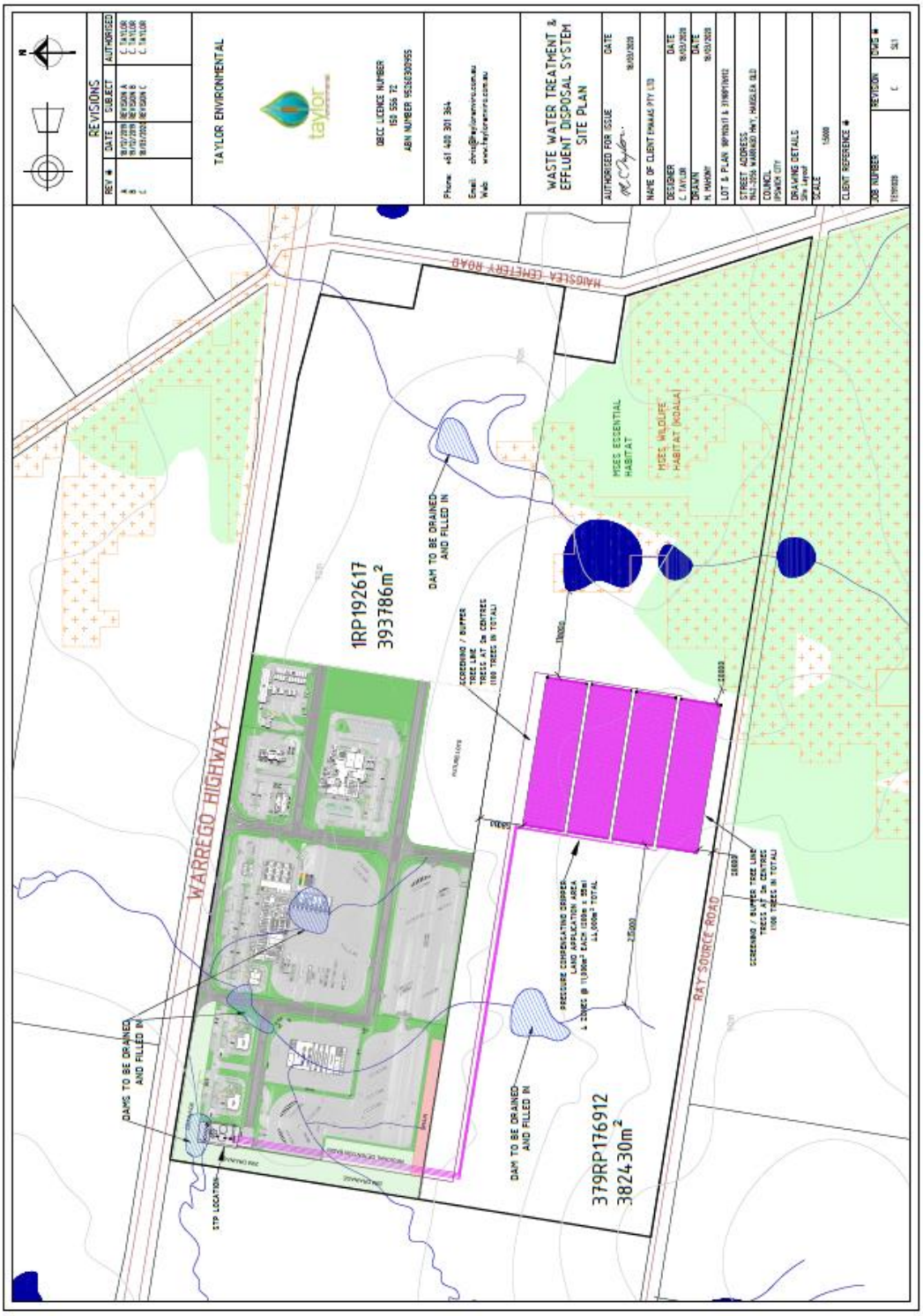
Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of.

Appendices

Attachment 1: Waste Water Treatment and Effluent Disposal System Site Plan



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END OF ENVIRONMENTAL AUTHORITY